## Listing of Claims

- 1. (previously presented) An anti-fuse structure comprising:
- a substrate having formed therein a conductor contact region;
- a metal silicide layer formed over and electrically connected with the conductor contact region;
- a first doped polysilicon layer formed upon the metal silicide layer;
- an anti-fuse material layer formed upon the first doped polysilicon layer; and
- a second doped polysilicon layer formed upon the anti-fuse material layer.
- 2. (original) The anti-fuse structure of claim 1 wherein the metal silicide layer is formed from a metal selected from the group consisting of titanium, tungsten, cobalt, nickel, platinum, vanadium and molybdenum metals.
- 3. (original) The anti-fuse structure of claim 1 wherein the anti-fuse material layer is formed from an anti-fuse material selected from the group consisting of amorphous silicon materials, amorphous carbon materials and dielectric materials.

- 4. (original) The anti-fuse structure of claim 1 wherein a doped polysilicon layer is not formed interposed between the contact region and the metal silicide layer.
- 5. (original) The anti-fuse structure of claim 1 further comprising a barrier layer formed interposed between the contact region and the metal silicide layer and contacting the metal silicide layer.
- (previously presented) An anti-fuse structure comprising:
- a substrate having formed therein a conductor contact region;
- a metal silicide layer formed over and electrically connected with the conductor contact region;
- a first doped polysilicon layer of a first polarity formed upon the metal silicide layer;
- an anti-fuse material layer formed upon the first doped polysilicon layer; and
- a second doped polysilicon layer of a second polarity opposite the first polarity formed upon the anti-fuse material layer.
- 7. (original) The anti-fuse structure of claim 6 wherein the

metal silicide layer is formed from a metal selected from the group consisting of titanium, tungsten, cobalt, nickel, platinum, vanadium and molybdenum metals.

- 8. (original) The anti-fuse structure of claim 6 wherein the anti-fuse material layer is formed from an anti-fuse material selected from the group consisting of amorphous silicon materials, amorphous carbon materials and dielectric materials.
- 9. (original) The anti-fuse structure of claim 6 wherein a doped polysilicon layer is not formed interposed between the contact region and the metal silicide layer.
- 10. (original) The anti-fuse structure of claim 6 further comprising a barrier layer formed interposed between the contact region and the metal silicide layer and contacting the metal silicide layer.
- 11. (previously presented) A method for forming an anti-fuse structure comprising:

providing a substrate having formed therein a conductor contact region;

forming a metal silicide layer over and electrically connected with the conductor contact region;

forming a first doped polysilicon layer upon the metal silicide layer;

forming an anti-fuse material layer upon the first doped polysilicon layer; and

forming a second doped polysilicon layer upon the anti-fuse material layer.

- 12. (original) The method of claim 11 wherein the metal silicide layer is formed from a metal selected from the group consisting of titanium, tungsten, cobalt, nickel, platinum, vanadium and molybdenum metals.
- 13. (original) The method of claim 11 wherein the anti-fuse material layer is formed from an anti-fuse material selected from the group consisting of amorphous silicon materials, amorphous carbon materials and dielectric materials.
- 14. (original) The method of claim 11 wherein a doped polysilicon layer is not formed interposed between the contact region and the metal silicide layer.
- 15. (original) The method of claim 11 further comprising forming a barrier layer interposed between the contact region and the metal silicide layer and contacting the metal silicide layer.
- 16. (previously presented) A method for forming an anti-fuse structure comprising:

providing a substrate having formed therein a conductor contact region;

forming a metal silicide layer over and electrically connected with the conductor contact region;

forming a first doped polysilicon layer of a first polarity upon the metal silicide layer;

forming an anti-fuse material layer upon the first doped polysilicon layer; and

forming a second doped polysilicon layer of a second polarity opposite the first polarity upon the anti-fuse material layer.

- 17. (original) The method of claim 16 wherein the metal silicide layer is formed from a metal selected from the group consisting of titanium, tungsten, cobalt, nickel, platinum, vanadium and molybdenum metals.
- 18. (original) The method of claim 16 wherein the anti-fuse material layer is formed from an anti-fuse material selected from the group consisting of amorphous silicon materials, amorphous carbon materials and dielectric materials.
- 19. (original) The method of claim 16 wherein a doped polysilicon layer is not formed interposed between the contact region and the metal silicide layer.
- 20. (original) The method of claim 16 further comprising forming a barrier layer interposed between the contact region and the metal silicide layer and contacting the metal silicide layer.